Appendix J. Wetlands and Riparian Lands

The large woody debris (LWD) potential index is a quantitative measure of the potential of each of the alternatives to provide woody debris to Class I and Class II streams. The number was determined for each hydrologic unit (HU) and alternative based upon a recruitment potential index (RPI) coefficient and the number of stream miles in each HU. The RPI coefficient was determined for each stream class and for slope based upon silvicultural prescription for the RMZ.

The RPI was calculated as follows. First, the total number of leave trees per acre was determined from different size trees (DBH). The number of trees was based upon a "typical" 60-year-old stand (described in Appendix K of PALCO's SYP) and took into account trees that would be harvested (based on the percentages to be left by DBH class for the established silvicultural prescription targets described in the HCP; see Table J-1) that also would function as LWD if recruited; thus, the trees in the RMZ are leave trees. For the purpose of these comparisons, dbh classes 22 to 30, 30 to 40 and 40+ inches were considered capable of functioning as key pieces if recruited in a Class I stream (Figures J-1a and b). These comparisons are based on an average stream width of 16 feet (Bisson et al., 1987). For Class II streams, dbh classes considered capable of functioning as key pieces begin at 14 inches. These comparisons were based on an average stream width of 5 feet.

Next, the cumulative percentage of debris pieces contributed from each harvest management band of the RMZs was computed. McDade et al.'s (1990) assessment of percent contribution of LWD from selected distance categories (see Figure 3.7-2b) was used to determine cumulative percentage of LWD recruitment (using their mature conifer curve). The mature conifer curve was used primarily because most of PALCO's ownership has been harvested and therefore is the baseline for the recruitment potential that exists. The first step of this calculation includes calculating the cumulative percentage of the riparian area by distance from the stream. For example, for Alternative 1 there would be 100 percent of the LWD source trees remaining in the riparian zone along Class I and Class II streams. The assumptions in calculating the 100 percent potential recruitment are: (1) The RMZ is the same length as 1 site-potential tree; (2) there is no-harvest within the RMA, so all trees of appropriate size are recruitable. Regarding recruitment potential among the alternatives, the RMZ was broken down by bands as follows: band 1 (0 to 30 feet) contributes approximately 48 percent of LWD source trees, band 2 (30 to 100 feet) contributes 45 percent, and band 3 contributes 7 percent (see Table J-2).

These percentages and the number of trees were used to determine a relative percent of the LWD recruitment potential based upon the no-harvest buffer width required by literature that provides 100 percent woody debris recruitment. Thus, coefficients used in the analysis are relative to 100 percent protection potential based on the modeled 60-year-old stand.

The coefficients were multiplied by the Class I and Class II stream miles within each HU with full recruitment potential. This number was then normalized to the total number of Class I and Class II stream miles on PALCO and Reserve lands. The results are shown by alternative in Figure 3.7-4 and Table 3.7-12.

APPENDIX J—ATTACHMENT 1

PALCO's Late Seral Prescriptions will apply to Class I outer band (OB) as follows¹

- Only single-tree selection will occur within the OB.
- Harvest will only occur in the OB if there is a preharvest conifer basal area of 276 square feet per acre or greater within the OB on each side of the watercourse.
- A minimum 240-square-foot post-harvest conifer basal area per acre of OB will be retained.
- No more than 40 percent of the conifer basal area may be harvested in a single entry.
- Tree sizes and quantity distribution will be retained as per Table J-1. If replacement size classes must be used to obtain the stated size distributions, the replacement size class must come from higher size classes if such trees are available. The largest trees in the stand must be left, and harvesting must be conducted in a manner that facilitates and expedites development of the stand conditions stated in Table J-1.
- Basal area measurements will be made for conformance no less than every 200-foot lineal segment of RMZ.

¹ OB—Outer Band

APPENDIX J—ATTACHMENT 1

Table J-1. Tree size and quantity necessary to meet residual basal area requirements.

Residual Basal Area Requirement	DBH Class	Basal Area Percent	# of Trees Per Acre*
240 square foot/acre	4 to 8"	3%	37
	8 to 12"	4%	18
	12 to 16"	8%	18
	60 to 20"	10%	14
	20 to 24"	12%	11
	24 to 28"	12%	9
	28 to 32"	15%	7
	32 to 36"	18%	7
	36 to 40"	18%	5
	over 40"	0%	0

^{*} Retention requirements are based on basal area not tree number. Number of trees/acre provided for information purposes only.

PALCO's Late Seral Prescriptions will apply to Class II selective entry band (SEBs) as follows²:

- Only single-tree selection will occur within the SEB.
- Harvest will only occur in the SEB if there is a preharvest conifer basal area of 276 square feet per acre or greater within the SEB.
- A minimum 240-square-foot post-harvest conifer basal area per acre of SEB will be retained.
- No more than 40 percent of the conifer basal area may be harvested in a single entry.
- Tree sizes and quantity distribution will be retained as per Table J-1. If replacement size classes must be used to obtain the stated size distributions, the replacement size class must come from higher size classes if such trees are available. The largest trees in the stand must be left, and harvesting must be conducted in a manner that facilitates and expedites development of the stand conditions stated in Table J-1.
- Basal area measurements will be made for conformance no less than every 200-foot lineal segment of RMZ.
- Basal area measurements will be made for conformance every 200-foot lineal segment of RMZ.
- There will be a maximum of 1 entry every 20 years.

² SEB—Selective Entry Band

Table J-2. Example of number of trees to be left on each side of Class I and II streams per 100 feet of stream length and cumulative percent of recruitable trees, based on a 60-year-old managed stand, by Alternative"

		Zone 1 (0-30 ft)	Zone 2 (30-100 ft)	Zone 3 (100-170 ft)	Total (170 ft)
Class I					
Alt 1	# of Trees	16.0	37.4	37.4	90.9
	Cumulative %	48%	45%	7%	100%
Alt 2 & 4	# of Trees	16.0	37.4	20.1	73.6
	Cumulative %	48%	45%	4%	97%
Alt 3	# of Trees	16.0	37.4	20.1	73.6
	Cumulative %	48%	45%	4%	97%
Class II					
Alt 1 ^{2/}	# of Trees	16.0	29.4	0.0	45.4
	Cumulative %	48%	42%	0%	90%
Alt 1 ^{3/}	# of Trees	16.0	37.4	37.4	90.9
	Cumulative %	48%	45%	7%	100%
Alt 2&44/	# of Trees	16.0	20.1	8.6	44.8
	Cumulative %	48%	29%	3%	80%
Alt 2&4 ^{5/}	# of Trees	16.0	20.1	0.0	36.2
	Cumulative %	48%	29%	0%	77%
Alt 3	# of Trees	16.0	31.3	20.1	67.4
	Cumulative %	48%	39%	5%	92%

¹/ See Appendix J text to understand how cumulative percent of recruitable trends was calculated.

Source: Foster Wheeler Environmental Corporation

²/ Modeled using the lower end of the 85 - 170' range of protection buffer widths for RMZs.

^{3/} Modeled using the upper end of the 85 - 170' range of protection buffer widths for RMZs.

^{4/} Outside of the Humbolt WAA (no harvest in Zone 1, 240 sq. ft./ac PHBA in Zone 2 and the first 30 feet of Zone 3, no restrictions for the remainder of Zone 3).

^{5/} Within the Humbolt WAA (no harvest in Zone 1, 240 sq. ft./ac PHBA in Zone 2, no restrictions in Zone 3)

Table J-3. Acres of Riparian Harvest Prescriptions by Alternative for PALCO's Ownership and the Reserve

Page 1 of 2

	·	Alternative 1	Alternative 11/		Alternative 2						
WAA	Hydrologic Unit	Α	Α	Α	В	С	D				
Bear/Mattole River Total	Bear River	4,720	2,507	882	1,618	618	232				
	Mattole Delta	1,005	529	193	305	129	49				
	NF Mattole River	1,329	701	226	466	201	79				
	Upper NF Mattole	2,355	1,251	415	840	362	113				
Bear/Mattole River Total		9,409	4,988	1,717	3,229	1,309	473				
Eel River	Eel Delta	2,938	1,559	550	1,047	353	148				
	Giants Ave	344	183	57	122	46	22				
	Larabee Creek	4,721	2,517	885	1,673	570	242				
	Lower Eel	9,327	4,821	1,567	3,456	1,277	457				
	Sequoia	3,301	1,723	588	1,168	400	169				
Eel River Total		20,631	10,803	3,646	7,466	2,645	1,037				
Humboldt Bay	Elk River	4,837	2,560	1,249	1,504	1,074	240				
	Freshwater Creek	4,512	2,383	873	1,199	863	199				
	Jacoby Creek	84	42	11	27	26	5				
	Other	10	5	1	2	3	1				
	Salmon Creek	990	525	28	37	28	8				
Humboldt Bay Total		10,433	5,515	2,161	2,770	1,993	453				
Mad River	Butler Valley	376	192	55	153	65	16				
	Iaqua Buttes	657	354	125	244	87	23				
Mad River Total		1,033	547	180	397	153	39				
Van Duzen River	Van Duzen WAA	6,792	3,574	1,396	2,217	723	349				
Van Duzen Total		6,792	3,574	1,396	2,217	723	349				
Yager Creek	Lawrence Cr	4,670	2,510	1,404	1,214	393	207				
	Lower Yager	4,246	2,267	1,306	1,037	352	207				
	Middle Yager	875	466	324	147	32	25				
	North Yager	722	390	139	250	81	38				
Yager Creek Total	-	10,513	5,633	3,173	2,647	859	476				
Grand Total		58,811	31,060	12,274	18,726	7,682	2,827				
RESERVE			0	2,393	0	0	0				

Notes:

A = No Harvest

B = PALCO Late Seral Prescription

C = EEZ

D = ELZ

^{1/} Calculated using no-harvest buffers of 170 feet, 85 feet, and 50 feet for Class I, Class II, and Class III streams, respectively.

In addition, marble murrelet residual stands are not specifically known

and are not accounted for in these values.

Source: Foster Wheeler Environmental Corporation

Table J-3. Acres of Riparian Harvest Prescriptions by Alternative for PALCO's Ownership and the Reserve

Page 2 of 2

			Alterna	tive 2a		Altern	ative 3	Alternative 4				
WAA	Hydrologic Unit	Α	В	С	D	Α	В	Α	В	С	D	
Bear/Mattole River Total	Bear River	882	1,618	618	232	2,770	1,728	882	1,618	618	232	
	Mattole Delta	193	305	129	49	627	406	193	305	129	49	
	NF Mattole River	226	466	201	79	215	134	226	466	201	79	
	Upper NF Mattole	415	840	362	113	1,205	750	415	840	362	113	
Bear/Mattole River Total		1,717	3,229	1,309	473	4,817	3,019	1,717	3,229	1,309	473	
Eel River	Eel Delta	550	1,047	353	148	2,593	1,595	353	684	235	104	
	Giants Ave	57	122	46	22	341	207	57	122	46	22	
	Larabee Creek	885	1,673	570	242	2,310	1,427	885	1,673	570	242	
	Lower Eel	1,567	3,456	1,277	457	6,455	4,016	1,567	3,456	1,277	457	
	Sequoia	588	1,168	400	169	2,230	1,402	588	1,168	400	169	
Eel River Total	_	3,646	7,466	2,645	1,037	13,928	8,646	3,450	7,103	2,527	994	
Humboldt Bay	Elk River	914	1,022	714	165	4,037	2,564	204	282	205	34	
	Freshwater Creek	873	1,199	863	199	3,765	2,331	873	1,199	863	199	
	Jacoby Creek	11	27	26	5	31	19	11	27	26	5	
	Other	1	2	3	1	2	1	1	2	2	1	
	Salmon Creek	28	37	28	8	28	18	28	37	28	8	
Humboldt Bay Total		1,826	2,287	1,634	377	7,863	4,934	1,116	1,547	1,124	246	
Mad River	Butler Valley	55	153	65	16	329	201	55	153	65	16	
	Iaqua Buttes	125	244	87	23	546	326	125	244	87	23	
Mad River Total		180	397	153	39	875	527	180	397	153	39	
Van Duzen River	Van Duzen WAA	1,396	2,217	723	349	4,693	2,950	1,129	2,107	689	329	
Van Duzen Total		1,396	2,217	723	349	4,693	2,950	1,129	2,107	689	329	
Yager Creek	Lawrence Cr	1,404	1,214	393	207	2,308	1,441	38	81	28	9	
	Lower Yager	1,306	1,037	352	207	2,281	1,415	0	0	0	0	
	Middle Yager	324	147	32	25	195	130	0	0	0	0	
	North Yager	139	250	81	38	268	166	0	0	0	0	
Yager Creek Total		3,173	2,647	859	476	5,052	3,152	38	81	28	9	
Grand Total		11,938	18,244	7,323	2,752	37,228	23,228	7,630	14,463	5,832	2,090	
RESERVE		1,568	0	0	0	2,393	0	18,800	0	0	0	
Notes:												

Notes:

A = No Harvest

B = PALCO Late Seral Prescription

C = EEZ

D = ELZ

^{1/} Calculated using no-harvest buffers of 170 feet, 85 feet, and 50 feet for Class I, Class II, and Class III streams, respectively.

In addition, marble murrelet residual stands are not specifically known

and are not accounted for in these values.

Source: Foster Wheeler Environmental Corporation

Table J-4. Riparian Acres by Seral Stage and Hydrologic Unit for Lands Found within the Reserve by Alternative^{1/}

		Grass	Hardwood	Late Seral	Mid-Seral	Forest Openings	Old Growth	Open Natural	Young Forest	
WAA Name	Hydrologic Unit	(G)	(H)	(L)	(M)	(O)	(OG)	(ON)	(Y)	Grand Total
Alternatives 2 and 3										
Eel River	Eel Delta	0	0	2	0	0	1	0	7	10
Eel River Total		0	0	2	0	0	1	0	7	10
Humboldt Bay	Elk River	0	0	681	149	12	468	135	92	1537
	Salmon Creek	0	0	42	213	3	431	0	154	843
Humboldt Bay Total		0	0	724	361	15	898	135	246	2380
Yager Creek	Lawrence Creek	0	0	0	3	0	0	0	0	3
Yager Creek Total		0	0	0	3	0	0	0	0	3
Grand Total		0	0	726	364	15	899	135	254	2393
Alternative 2a										
Eel River	Eel Delta	0	0	2	0	0	1	0	7	10
Eel River Total		0	0	2	0	0	1	0	7	10
Humboldt Bay	Elk River	0	0	44	101	12	468	0	88	713
·	Salmon Creek	0	0	42	213	3	431	0	154	843
Humboldt Bay Total		0	0	86	313	15	898	0	243	1555
Yager Creek	Lawrence Creek	0	0	0	3	0	0	0	0	3
Yager Creek Total		0	0	0	3	0	0	0	0	3
Grand Total		0	0	88	316	15	899	0	250	1568
Alternative 4										
Eel River	Eel Delta	4	19	590	96	133	1	6	177	1026
Eel River Total		4	19	590	96	133	1	6	177	1026
Humboldt Bay	Elk River	0	48	2709	1725	230	491	131	929	6262
•	Other	0	0	0	2	0	0	0	0	2
	Salmon Creek	0	0	42	213	3	431	0	154	843
Humboldt Bay Total		0	48	2751	1940	233	921	131	1083	7107
Van Duzen River	Van Duzen WAA	5	1	223	46	12	0	66	2	355
Van Duzen River Tota	l	5	1	223	46	12	0	66	2	355
Yager Creek	Lawrence Cr	28	1	380	1434	76	390	82	2077	4469
<u> </u>	Lower Yager	2	7	946	1655	33	129	410	1065	4246
	Middle Yager	2	0	50	234	18	148	0	422	875
	North Yager	1	86	12	193	22	42	56	312	722
Yager Creek Total	ū	34	94	1388	3516	149	708	549	3875	10312
Grand Total		43	162	4953	5598	527	1630	751	5138	18801
1/ Alternative 1 does no	t establish a Reserve.									

	1	PALCO OV			tives for years	iver Timber (in	Proposed L	leadwaters o	r 61 000-2010	Reserve	Total			Page 1 of	
Habitat Type	0	10	50	120	0	10	50. Ownersii	120	0	10	50	120	0	10	50	120	
• • • • • • • • • • • • • • • • • • • •		10		120		10	30	120	U	10		120		10		120	
ALTERNATIVE 1	1.722	1.640	1.640	1.640									1.722	1.640	1.640	1.64	
Old Growth Douglas-fir	1,723	1,649	1,649	1,649	-	-	-	-	-	-	-	-	1,723	1,649	1,649	1,64	
Old Growth Redwood	1,521	1,498	1,498	1,498	-	-	-		-	-	-	-	1,521	1,498	1,498	1,49	
Residual Douglas-fir	1,854	1,595	1,595	1,595	-	-	-	-	-	-	-	-	1,854	1,595	1,595	1,59	
Residual Redwood	4,878	4,641	4,641	4,641	-	-	-	-	-	-	-	-	4,878	4,641	4,641	4,64	
Late Seral	12,027	12,399	20,429	29,164	1,855	1,924	2,325	2,375	-	-	-	-	13,882	14,323	22,754	31,53	
Mid-successional	22,601	22,265	26,200	12,546	441	372	174	124	-	-	-	-	23,042	22,637	26,374	12,67	
Young Forest	9,049	11,822	19	-	203	203	-	-	-	-	-	-	9,252	12,025	19	-	
Hardwood ³	332	261	97	5,036	-	-	-	-	-	-	-	-	332	261	97	5,03	
Forest Open	2,149	4	4	4	-	-	-	-	-	-	-	-	2,149	4	4		
Prairie	589	589	589	589	-	-	-	-	-	-	-	-	589	589	589	58	
Non-timber	1,895	1,895	1,895	1,895	204	204	204	204	-	-	-	-	2,099	2,099	2,099	2,09	
Fotal	58,618	58,618	58,616	58,617	2,703	2,703	2,703	2,703	_	_	_	_	61,321	61,321	61,319	61,32	
ALTERNATIVE 2	2.0,0.2.0	,	,	,	_,	_,	_,	_,					,	,	,	,	
Old Growth Douglas-fir	740	664	296	296	0	0	0	0	68	68	68	68	808	732	364	36	
_	434	275	275	275	0	0	0	0	406	406	406		840	681	681	68	
Old Growth Redwood									406	406	406	406					
Residual Douglas-fir	881	773	773	389	0	0	0	0	-	-	-		881	773	773	38	
Residual Redwood	2521	1501	846	846	0	0	0	0	113	113	113	113	2,634	1,614	959	95	
Late Seral	6400	6775	11074	19045	0	0	0	0	329	332	408	425	6,729	7,107	11,482	19,47	
Mid-successional	10714	11414	12881	5089	0	0	0	0	95	91	112	95	10,809	11,505	12,993	5,18	
Young Forest	3791	4926	182	30	0	0	0	0	92	96	-	-	3,883	5,022	182	3	
Hardwood	168	59	62	421	0	0	0	0	-	-	-	-	168	59	62	42	
Forest Open	741	2	2	2	0	0	0	0	4	-	-	-	745	2	2		
Prairie	201	201	201	201	0	0	0	0	2	2	2	2	203	203	203	20	
von-timber	1360	1360	1360	1360	0	0	0	0	128	128	128	128	1,488	1,488	1,488	1,48	
Cotal	27,951	27,950	27,952	27,954	0	0	0	0	1,237	1,236	1,237	1,237	29,188	29,186	29,189	29,19	
ALTERNATIVE 2b	,	,	,					_	-,	-,	-,	-,	,	,	,		
Old Growth Douglas-fir	740	664	296	261	0	0	0	0	68	68	68	68	808	732	364	30	
Old Growth Redwood	434	275	275	275	0	0	0	0	406	406	406	406	840	681	681	68	
Residual Douglas-fir	881	773	773	389	0	0	0	0	0	0	0	0	881	773	773	38	
Residual Redwood	2521	1501	846	846	0	0	0	0	113	113	113	113	2634	1614	959	95	
Late Seral	5845	6201	10347	18258	1855	1924	2325	2375	230	233	308	325	7930	8358	12980	2095	
Mid-successional	10558	11276	12788	5104	441	372	174	124	94	90	112	95	11093	11738	13074	533	
Young Forest	3699	4837	199	35	203	203	0	0	92	96	0	0	3994	5136	199	3	
Hardwood	168	59	62	421	0	0	0	0	0	0	0	0	168	59	62	42	
Forest Open	741	2	2	2	0	0	0	0	4	0	0	0	745	2	2		
Prairie	201	201	201	201	0	0	0	0	2	2	2	2	203	203	203	20	
Non-timber	1305	1305	1305	1305	204	204	204	204	128	128	128	128	1637	1637	1637	163	
Γotal	27,093	27,094	27,094	27,097	2,703	2,703	2,703	2,703	1,137	1,136	1,137	1,137	30,933	30,933	30,934	30,937	
ALTERNATIVE 3	,	,	,	, · ·	,	,	,	,	, -	,	, -	, -	,	,	/ -	, .	
Old Growth Douglas-fir	1,563	1,487	1,487	1,487					68	68	68	68	1,631	1,555	1,555	1,55	
Old Growth Redwood	784	760	760	760	-	-	-		406	406	406	406	1,190	1,166	1,166	1,16	
					-	-	-	-	400	400		400					
Residual Douglas-fir	1,854	1,595	1,595	1,595	-	-	-	-	-	-	-	-	1,854	1,595	1,595	1,59	
Residual Redwood	4,645	4,409	4,409	4,409	-	-	-		113	113	113	113	4,758	4,522	4,522	4,52	
Late Seral	13,243	13,588	21,710	31,425	-	-	-	-	329	332	408	425	13,572	13,920	22,118	31,85	
Mid-successional	22,827	22,517	26,297	12,269	-	-	-	-	95	91	112	95	22,922	22,608	26,409	12,36	
Young Forest	8,999	11,759	19	-	-	-	-	-	92	96	-	-	9,091	11,855	19	-	
Hardwood ³	332	261	100	4,431	-	-	-	-	-	-	-	-	332	261	100	4,43	
Forest Open	2,138	4	4	4	-	-	-	-	4	-	-	-	2,142	4	4		
Prairie	586	586	586	586	-	-	-	-	2	2	2	2	588	588	588	58	
Non-timber	1,964	1,964	1,964	1,964	-	-	-		128	128	128	128	2,092	2,092	2,092	2,09	
Total	58,935	58,930	58,931	58,930	-	-	-		1,237	1,236	1,237	1,237	60,172	60,166	60,168	60,16	
ALTERNATIVE 4	,			,0					-,	-,	-,	-,	,		,	,10	
Old Growth Douglas-fir	667	612	247	247	_	_	_		141	141	141	141	808	753	388	38	
Old Growth Redwood	74	8	7	7	-	-	-	-					840	774	773		
					-	-	-	-	766	766	766	766 48		774	773 799	77	
Residual Douglas-fir	832	751	751	368	-	-	-	-	48	48	48		880			41	
Residual Redwood	1,244	638	212	212	-	-	-	-	1,391	1,391	1,391	1,391	2,635	2,029	1,603	1,60	
ate Seral	4,669	4,990	7,893	13,172	237	256	410	404	1,823	1,885	3,022	4,030	6,729	7,131	11,325	17,60	
/lid-successional	8,453	8,841	8,911	3,990	148	129	67	72	2,208	2,204	3,359	2,276	10,809	11,174	12,337	6,33	
Young Forest	1,680	2,384	291	4	90	90	-	-	2,112	2,301	-	-	3,882	4,775	291		
	108	57	52	362	-	-	-	-	59	-	10	85	167	57	62	44	
Forest Open	637	83	_	_	-	-	-	-	190	-	_		827	83	_	-	

Table J-5. Current and Projected Seral Stage Acreage in RMZs Under the Alternatives for years 0, 10, 50, and 120^{1/2/1}

Table J-5. Current and Project	ble J-5. Current and Projected Seral Stage Acreage in RMZs Under the Alternatives for years 0, 10, 50, and 120 ^{1,2)}															Page 2 of
		PALCO Ow	nership		Elk Ri	ver Timber C	o. Ownersh	ip	Proposed Headwaters or 61,000-acre Reserve				Total			
Habitat Type	0	10	50	120	0	10	50	120	0	10	50	120	0	10	50	120
Non-timber	1,153	1,153	1,153	1,153	25	25	25	25	310	310	310	310	1,488	1,488	1,488	1,488
Total	19,621	19,621	19,621	19,619	500	500	502	501	9,065	9,063	9,064	9,064	29,186	29,184	29,187	29,184

^{1/} Data derived from Vestra GIS database

^{2/} Data combines riparian habitat within Class I, II, and III streams

^{3/} The large increase in hardwood acres shown for year 120 is most likely the result of modeling error.

It is reasonable to assume that the majority of this acreage would develop into late seral forest rather than into hardwood forest since they are conifer stands at age 50

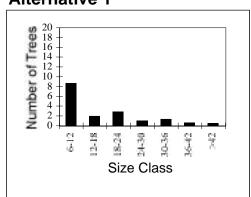
Figure J-1a. Number of Trees in Each Size Class within Bands 1, 2, and 3 Along a 100-foot Length of Class I Streams (Based on 60-Year-Old Managed Stand)

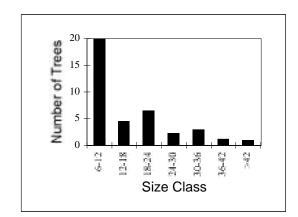
Page 1 of 2

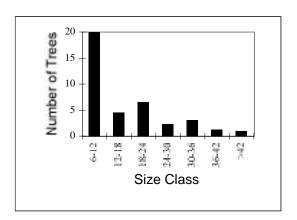
Zone 2 (30 to 100 feet)

Zone 3 (100 to 170 feet)^{1/}

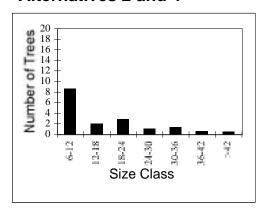
Alternative 1

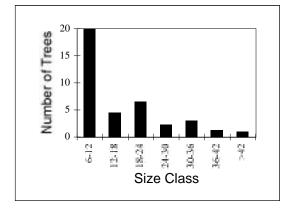






Alternatives 2 and 4





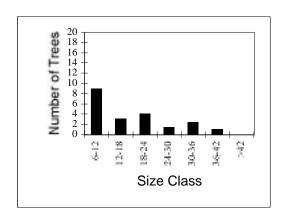
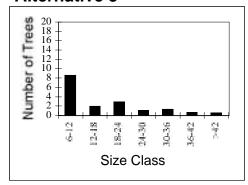
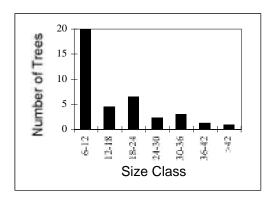


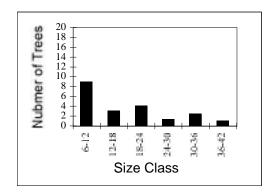
Figure J-1a. Number of Trees in Each Size Class within Bands 1, 2, and 3 Along a 100-foot Length of Class I Streams (Based on 60-Year-Old Managed Stand) Page 2 of 2

Zone 2 (30 to 100 feet)

Alternative 3







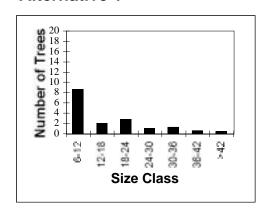
1/ Harvest restrictions extend out to 340 feet under Alternatives 1 and 3.

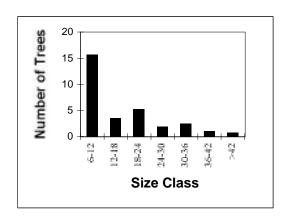
Figure J-1b. Number of Trees in Each Size Class within Bands 1, 2, and 3 Along a 100-foot Length of Class II Streams (Based on 60-Year-Old Managed Stand)

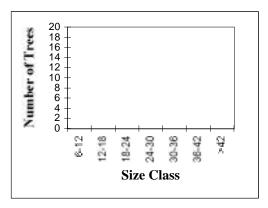
Page 1 of 3

Zone 2 (30 to 100 feet)

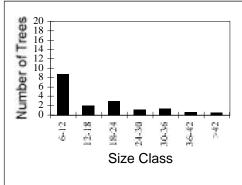
Alternative 11/

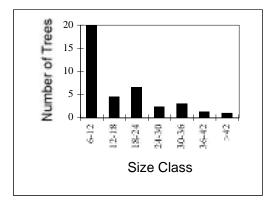






Alternative 12/





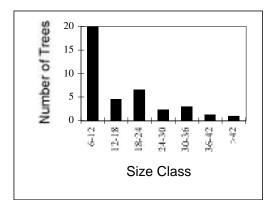
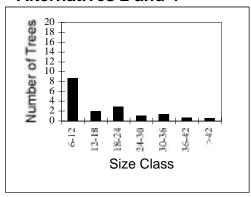


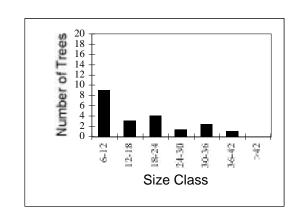
Figure J-1b. Number of Trees in Each Size Class within Bands 1, 2, and 3 Along a 100-foot Length of Class II Streams (Based on 60-Year-Old Managed Stand)

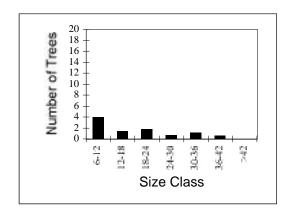
Page 2 of 3

Zone 2 (30 to 100 feet)

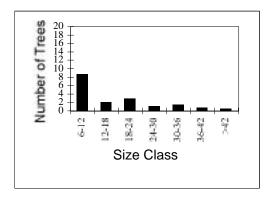
Alternatives 2 and 43/

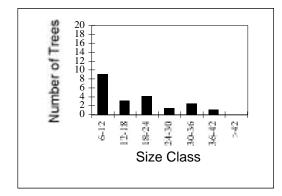






Alternatives 2 and 44/





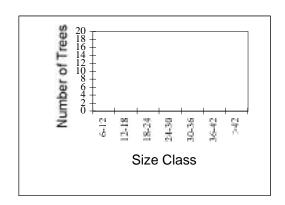
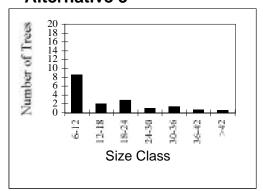


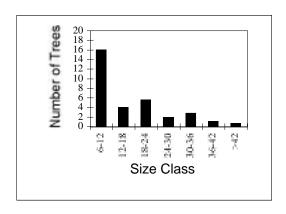
Figure J-1b. Number of Trees in Each Size Class within Bands 1, 2, and 3 Along a 100-foot Length of Class II Streams (Based on 60-Year-Old Managed Stand)

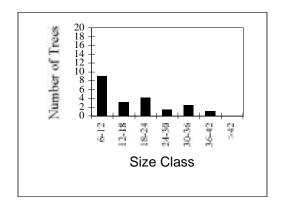
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Zone 1 (0 to 30 feet)
Alternative 3



Zone 2 (30 to 100 feet)





- 1/ Modeled using the lower end of the 85 to 170 foot range of protection buffer widths for RMZs.
- 2/ Modeled using the upper end of the 85 to 170 foot range of protection buffer widths for RMZs.
- 3/ Outside of the Humbolt WAA (no harvest in Zone 1, 240 sq. ft./ac PHBA in Zone 2 and the first 30 feet of Zone 3, no restrictions for the re
- 4/ Within the Humbolt WAA (no harvest in Zone 1, 240 sq. ft./ac PHBA in Zone 2, no restrictions in Zone 3).